

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 01/4511

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/435 C12N15/12 C12N5/10 A61K38/17 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

MEDLINE, EPO-Internal, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE GENEMBL 'Online! 21 December 2000 (2000-12-21) PETZELT, C.P.: "Aplysia punctata mRNA for cyplasin L (ek431 gene)" Database accession no. AJ304802 XP002240886 cited in the application	1-7, 10, 11
X	PETZELT C ET AL: "CYPLASIN KILLS PREFERENTIALLY AUTONOMOUS CYCLING CELLS" CELL BIOLOGY INTERNATIONAL, ACADEMIC PRESS, GB, vol. 25, no. 2, 2001, page A23 XP001002719 ISSN: 1065-6995 abstract --- -/--	6, 10-12

☒ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

3 June 2003

Date of mailing of the international search report

17/06/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 02/14511

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SUZUKI C ET AL: "Lethal effect of the expression of a killer gene SMK1 in <i>Saccharomyces cerevisiae</i> ." PROTEIN ENGINEERING. ENGLAND FEB 2000, vol. 13, no. 2, February 2000 (2000-02), pages 73-76, XP002240884 ISSN: 0269-2139 page 74, left-hand column, paragraph 3 -----	8,10-12
P,X	PETZELT CHRISTIAN ET AL: "Cytotoxic cyplasin of the sea hare, <i>Aplysia punctata</i> , cDNA cloning, and expression of bioactive recombinants in insect cells." NEOPLASIA (NEW YORK), vol. 4, no. 1, January 2002 (2002-01), pages 49-59, XP002240885 ISSN: 1522-8002 the whole document -----	1-7, 10-12

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7 (complete) and 10-12 (in part)

The polypeptide comprising amino acids 20 or 53 to 588 of the *Aplysia punctata* cyplasin L.

2. Claims: 8-9 (complete) and 10-12 (in part)

Method for the expression of a cytotoxic polypeptide wherein the signal sequence has been deleted or rendered non-functional.